

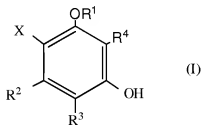
AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

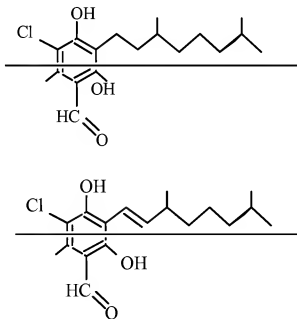
[1] (currently amended) A compound represented by formula (I),

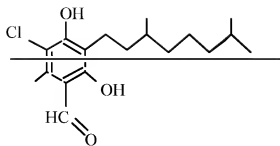
[Formula 1]



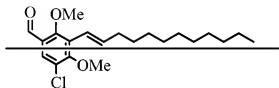
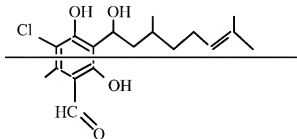
~~a compound represented by the following formulae,~~

[Formula 2-1]





{Formula-2-2}



an optical isomer ~~thereof~~ ~~thereof~~, or a pharmaceutically acceptable salt thereof,

wherein

X is a hydrogen atom or a halogen atom;

R¹ is a hydrogen atom or $-(C_nH_{2n})-R'$ (wherein n is an integer of 1 to 5; and R' is a hydrogen atom, a group COOR'' or -COR''' of a substituent on any one of the n carbon atoms, wherein R'' is a hydrogen atom or a C₁₋₄ alkyl group; and R''' is a pyridyl group, an amino group substituted with a C₁₋₄ alkyl group, a phenoxyalkyl group having a halogen atom on the carbon atoms of the benzene ring or a phenyl group having a C₁₋₄ alkoxy group or a C₁₋₄ alkoxycarbonyl group on the carbon atoms of the benzene ring);

R² is a hydrogen atom or a C₁₋₄ alkyl group;

R³ is -CHO or -COOH; and

R^4 is $-\text{CH}=\text{CH}-(\text{CH}_2)_p-\text{CH}_3$ (wherein p is an integer of 1 to 12), $-\text{CH}(\text{OH})-(\text{CH}_2)_q-\text{CH}_3$ (wherein q is an integer of 1 to 13), $-\text{CH}(\text{OH})-\text{CH}_2-\text{CH}(\text{CH}_3)-(\text{CH}_2)_2-\text{CH}=\text{C}(\text{CH}_3)_2$, $-\text{CH}=\text{CH}-\text{CH}(\text{CH}_3)-(\text{CH}_2)_3-\text{CH}(\text{CH}_3)_2$, $-(\text{CH}_2)_2-\text{CH}(\text{CH}_3)-(\text{CH}_2)_3-\text{CH}(\text{CH}_3)_2$, or $-(\text{CH}_2)_8-\text{CH}_3$.

[2] (currently amended) The compound of claim 1 ~~represented by formula (I)~~,

wherein

X is a hydrogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is $-\text{CHO}$; and

R^4 is $-\text{CH}(\text{OH})-(\text{CH}_2)_q-\text{CH}_3$ (wherein q is an integer of 1 to 12),

an optical isomer ~~thereof~~ thereof, or a pharmaceutically acceptable salt thereof.

[3] (currently amended) The compound of claim 1 ~~represented by formula (I)~~,

wherein

X is a halogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is $-\text{CHO}$; and

R^4 is $-\text{CH}(\text{OH})-(\text{CH}_2)_q-\text{CH}_3$ (wherein q is an integer of 1 to 12),

an optical isomer ~~thereof~~ thereof, or a pharmaceutically acceptable salt thereof.

[4] (currently amended) The compound of claim 1 ~~represented by formula (I),~~

wherein

X is a hydrogen atom or a halogen atom;

R¹ is a hydrogen atom;

R² is a hydrogen atom or a C₁₋₄ alkyl group;

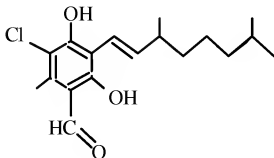
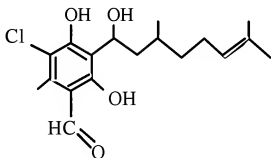
R³ is -CHO; and

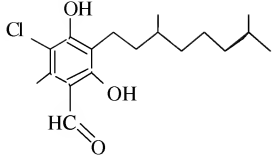
R⁴ is -CH=CH-(CH₂)_p-CH₃ (wherein p is an integer of 1 to 12),

an optical isomer thereof ~~thereof~~, or a pharmaceutically acceptable salt thereof.

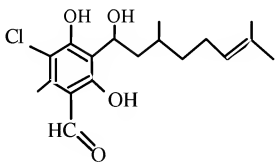
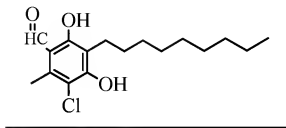
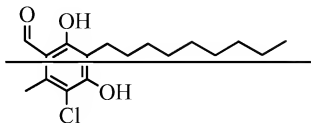
[5] (currently amended) ~~The A compound of claim 1~~ selected from the following formulae:

[~~Formula 3-1~~]

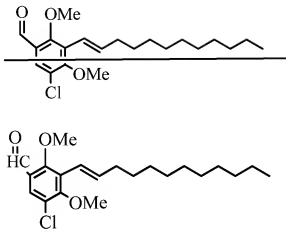




[Formula 3-2]



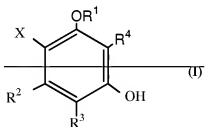
[Formula 3-3]and



an optical isomer thereof of any of them, or a pharmaceutically acceptable salt thereof of any of them.

[6] (currently amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound according to claim 1.

[Formula 4]



— wherein

— X is a hydrogen atom or a halogen atom;

— R^1 is a hydrogen atom or $(C_nH_{2n})-R'$ (wherein n is an integer of 1 to 5; and R' is a hydrogen atom, a group $-COOR''$ or $-COR'''$ of a substituent on any one of the n carbon atoms, wherein R'' is a hydrogen atom or a C_{1-4} alkyl group; and R''' is a pyridyl group;

an amino group substituted with a C₁₋₄ alkyl group, a phenoxyalkyl group having a halogen atom on the carbon atoms of the benzene ring or a phenyl group having a C₁₋₄ alkoxy group or a C₁₋₄ alkoxy carbonyl group on the carbon atoms of the benzene ring;

— R² is a hydrogen atom or a C₁₋₄ alkyl group;

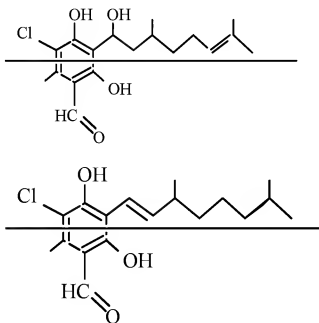
— R³ is —CHO or —COOH; and

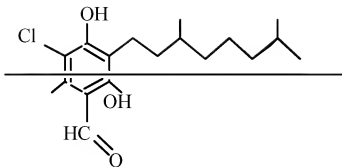
— R⁴ is —CH=CH—(CH₂)_p—CH₃ (wherein p is an integer of 1 to 12), —CH(OH)—(CH₂)_q—CH₃ (wherein q is an integer of 1 to 13),

—CH(OH)—CH₂—CH(CH₃)—(CH₂)₂—CH=C(CH₃)₂—CH=CH—CH(CH₃)—(CH₂)₃—CH(CH₃)₂—
(CH₂)₂—CH(CH₃)—(CH₂)₃—CH(CH₃)₂ or —(CH₂)₈—CH₃;

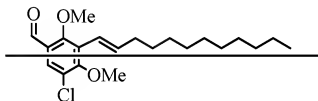
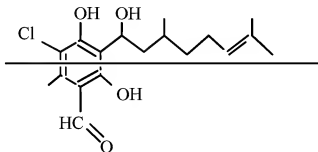
a compound represented by the following formulae:

[Formula 5-1]





[Formula 5-2]



an optical isomer thereof and an pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

[7] (currently amended) The pharmaceutical composition of ~~claim 6~~ comprising a compound represented by formula (I) claim 6,

wherein

X is a hydrogen atom;

R¹ is a hydrogen atom;

R² is a C₁₋₄ alkyl group;

R³ is -CHO; and

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R^4 is $-\text{CH}(\text{OH})-(\text{CH}_2)_q-\text{CH}_3$ (wherein q is an integer of 1 to 12).

[8] (currently amended) The pharmaceutical composition of claim 6 ~~comprising a compound represented by formula (I),~~

wherein

X is a halogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is $-\text{CHO}$; and

R^4 is $-\text{CH}(\text{OH})-(\text{CH}_2)_q-\text{CH}_3$ ~~wherein,~~ wherein q is an integer of 1 to 12.

[9] (currently amended) The pharmaceutical composition of claim 6 ~~comprising a compound represented by formula (I),~~

wherein

X is a hydrogen atom or a halogen atom;

R^1 is a hydrogen atom;

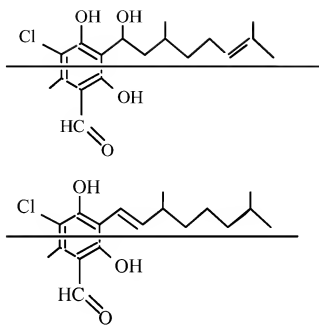
R^2 is a hydrogen atom or a C_{1-4} alkyl group;

R^3 is $-\text{CHO}$; and

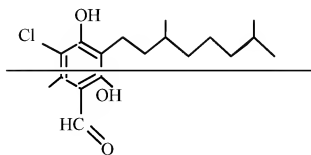
R^4 is $-\text{CH}=\text{CH}-(\text{CH}_2)_p-\text{CH}_3$ ~~(wherein,~~ wherein p is an integer of 1 to 12.

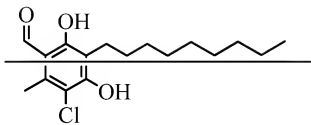
[10] (currently amended) The ~~pharmaceutical composition of claim 6 comprising at least one of a compound represented by the following formulae: A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound according to claim 5.~~

[Formula 6-1]

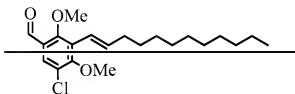
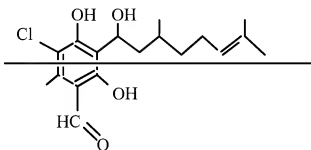


[Formula 6-2]





[Formula 6-3]



an optical isomer thereof and a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier

[11] (currently amended) The pharmaceutical composition of ~~any one of claims claim~~ 6 to 10 which comprises comprising glycerin.

[12] – [17] cancelled

[18] (new) The pharmaceutical composition of claim 7 comprising glycerin.

[19] (new) The pharmaceutical composition of claim 8 comprising glycerin.

[20] (new) The pharmaceutical composition of claim 9 comprising glycerin.

[21] (new) The pharmaceutical composition of claim 10 comprising glycerin.